Revised: October 26, 2021

The Health Risks of Extraterrestrial Environments
Instructions for Authors

Introduction

The objective of The Health Risks of Extraterrestrial Environments (THREE) website is to serve as an accurate, comprehensive, and current resource for space radiation research.

THREE provides information useful to scientists considering an expansion of their research into space radiation topics, scientists and teachers interested in broadening their background, and students considering space radiation research.

Topics of Interest

THREE welcomes Notes and Articles (see below) on all subjects shown on Table I; authors interested in submitting articles on topics not included in the table, but deemed relevant to space radiation, will be considered as appropriate.

TABLE I: THREE Topics

NASA and Exploration	**Cellular Responses to Radiation**	**Radioprotectants and mitigation**
Space Radiation Element	DNA damage	Shielding
Mission	DNA Repair	Biomarkers
Strategy	Chromosome Aberrations	*Inflammatory markers*
Roles and Responsibilities	Mutations	*miRNA*
Space	Immunity and inflammation	*Gene expression profiling*
Space Weather	Senescence and aging	*Circulating cell-free DNA*
Space Radiation Environment	Oxidative Stress	*Exosomes*
Space analogs	Genetic variability	*Proteomics*
Particle Accelerators	Mitochondrial impact	*Metabolomics*
World-wide experiment facilities	Impact on energy metabolism	*Microbiome*
NSRL	**Tissue Responses to Radiation**	**Biological countermeasures**
Neutron, gamma sources	Carcinogenesis	Diagnoses and treatment
Radiation therapy	CVD Risks	*Medical Surveillance*
Particle Physics & Chemistry	CNS Risks	*Early Diagnosis*
Interactions of Radiation with Matter	Bone	*Therapeutic approaches*
Radiation Chemistry	Cataracts	Clinical radioprotectors
Track Structure	Abscopal effects	Acute radiation syndrome
Dosimetry	Synergies	**Mechanisms of radiation response**
Dose and Dose Rate		Experimental models
		Computational models
		Risk Management
		Radiation epidemiology
		Space radiation protection

Instructions for Authors

All contributions shall be submitted to the Chief Editor. All correspondence and submissions of articles shall be conducted via email. Articles shall be in Microsoft Word format, unless the Page Editor requests or agrees to a variation. Fonts used may be Arial or Times New Roman, 11-point size. Left and right margins shall be no less than 1 inch; top and bottom margins shall be no less than 0.75 inches. THREE staff must be able to edit the submissions, in order to insert the actual posting date into the heading of the article.

It is strongly recommended that authors consult current articles posted on the THREE website for examples of suitable content, layout, references, source of illustrations, level of scientific sophistication, lack of jargon and overall clarity. The specifications for these qualities are still evolving; their final state will reflect the needs of authors and readers as their responses accumulate. Recommended style, as well as standard abbreviations and acronyms should follow that of the journal *Radiation Research*.

The types of contributions that will be considered are Notes and Articles:

> **Notes** are short references to relevant background resources, such as the material currently found in the Computer Tools section of THREE. Notes should be limited to approximately 1,200 words and may be edited for readability, to insert hyperlinks to other articles or dictionaries, etc. Notes will be reviewed by the Chief Editor or an assigned Associate Editor
>
> **Articles** may provide basic introductory text, expand on existing articles, or add new and relevant material on published research results. Authors may submit unsolicited proposals for topical reviews to the Editorial Board, who may approve such proposals for contribution, pending editorial review. There is no current page limit for articles, but they are expected to be concise and contain an abstract.

The first paragraph of every article should offer a brief overview of the topic, the relevance of their contents to space radiation challenges and should be written at a level that is accessible to the lay reader. In keeping with the encyclopedia format, authors may choose to address specific topics by exposition and by reference to existing literature. In cases where the article describes research that has not yet been applied to space radiation challenges, the author(s) should provide a rationale for the article's significance in that context, including appropriate speculation where justified.

Articles are expected to be written in a style understandable by non-experts (such as might be found in *Scientific American*). In some cases, more technical articles may be published, and the assigned Associate Editor may request an extended summary for the non-expert or lay community.

Authors should strive to be neutral when covering topics in which there are alternative points of view. Competing views should be included if, in the opinion of the Associate Editors, they are supported by a significant portion of the scientific community.

Articles will be peer-reviewed by at least two expert reviewers, chosen by the responsible Associate Editor, who must be satisfied that the corresponding author of the article has properly addressed reviewer critiques. In case of conflicting reviews or conflict between an author and reviewers, the Chief Editor will make a final decision.

Articles will be written by experts, contributing their reports on a voluntary basis, without remuneration. Existing articles may be updated with a new version, and articles on new subjects will be solicited when appropriate. Any member of the scholarly community can request corrections to content. Approval of these requests will be from the Editorial Board. If a revision is authorized, one Associate Editor of the Board will be selected by the Chief Editor to oversee the processing and review of the new or revised article.

Readers are encouraged to comment on articles and may submit comments, as well as suggested additions and revisions, to the Page Editor. The Page Editor will forward all comments to the Chief Editor for review and adjudication, which may result in one or more of the following: sending the comments to the corresponding author of the article for response, refereeing the comments, authorizing the posting of the comments following review, or opening the comments to moderated discussion on the web site.

Authors of accepted articles agree that an article may be selected for display as a Featured Article on the website main page, showing a summary of the article, generally based on the abstract, and one or more figures selected by the Chief Editor.

Posting of Articles

All contributions will be maintained on a secure server.

Note, Articles, and images must not violate or infringe upon copyrights. Prior to submission, authors are encouraged to avoid misunderstandings due to similarities in text to published material by using “plagiarism” detection tools offered by the Office of Research Integrity (https://ori.hhs.gov/plagiarism-tools), such as the free online software eTBLAST (http://etblast.vbi.vt.edu/).

As has become common practice, authors should disclose potential conflicts of interest and acknowledge their sources of funding.

The corresponding author is required to provide this statement with the submission of an article for posting on THREE:

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I have permission to use all the material in this article.

All articles may be edited for clarity, with the corresponding author's consent to the final version. Accepted articles may be cited as a refereed publication using the format of Radiation Research, which references the *Uniform Requirements for Manuscripts Submitted to Biomedical Journals.* In addition, current regulations require all publications to be reviewed by NASA Export Control prior to release.

For proper attribution in references, article citations should indicate the *Date Posted,* which is the actual date the article is posted on the THREE website as indicated in or near the heading of the posted article. The citation should also indicate the *Date Consulted*, which is the date when the author of the citation last accessed the cited web page; this practice is common in the scholarly literature since web pages may change, affecting conclusions based on their content.

The Page Editor is the point of contact with the NASA/JSC Information Technology staff.

Following complete editorial review, the Chief Editor notifies the Page Editor that a contribution has been accepted and authorizes the Page Editor to process the contribution for posting. Prior to posting, the Page Editor adds the following information to the header of every contribution, providing the citation to the contribution:

Encyclopedia Outline Section. Title of article. Author name(s). URL of article. Date posted.

If the contribution is an update or replacement of a previous contribution, the Page Editor will add the remark *History* and will list citations to the prior posting(s).

The Page Editor shall process the posting of contributions in a timely manner.